SST-Optimizer™ Cables 2-72 Fibers

An Evolant™ Solutions Product

Corning
Cable Systems

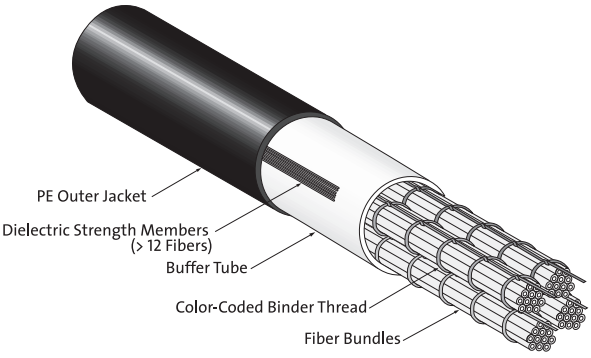
Description

SST-Optimizer™ Cables make optimal use of available duct space by providing high-fiber-packing density in small cables that can be readily installed in micro-duct systems using a variety of cable-installation techniques. The cables consist of bundles of color-coded fibers in a central-tube design.

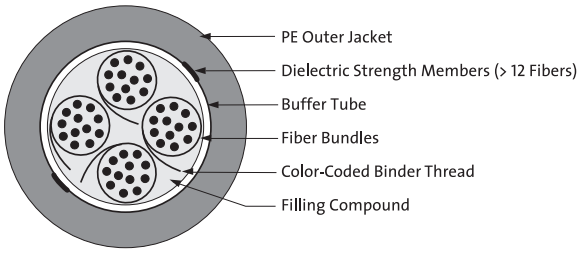
Features / Benefits

- Small outer diameter enables installation of up to 72 fibers in 10 mm OD/8 mm ID duct systems
- Single-tube design with dielectric yarns has no preferential bend
- Unique woven binder provides:
  - Easier fiber bundle segregation
  - Simplified fiber handling
- Craft-friendly cable construction facilitates:
  - Drop of any number of fibers at any access point
  - Access of any individual fiber in future midspan access
- Compatible with industry-standard hardware and procedures

SST-Optimizer Cable | Photo CLT52



SST-Optimizer Cable | Drawing ZA-2585



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Product Specifications

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Specifications

Storage Temperature	-40° to +70°C (-40° to +158°F)
Installation Temperature	-30° to +50°C (-22° to +122°F)
Operating Temperature	-40° to +70°C (-40° to +158°F)[1]

Fiber Count	Buffer Tube Outer Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Nominal Diameter[2] mm (in)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)	Representative Corning Cable Systems Part Number[3]
2-12	2.2 (0.9)	10 (6.7)	3.5 (0.14)	5.3 (2.1)	3.5 (1.4)	**012RB4-13301C20**
12-72	4.7 (0.19)	30 (20)	6.0 (0.24)	9.0 (3.5)	6.0 (2.4)	**072RB4-13201C20**

Notes:
[1]Standard single-mode fiber performance.
[2]Actual diameter may vary by ± 5%.
[3]Part numbers are representative. Please contact Corning Cable Systems Customer Service to verify a specific design's part number when ordering.

Maximum Tensile Loads

Fiber Count	Nominal Outer Diameter mm (in)	Short-Term N (lbf)	Long-Term N (lbf)
2-12	3.5 (0.14)	100 (22)	33 (7)
12-72	6.0 (0.24)	500 (110)	165 (35)

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Transmission Performance Table

Fiber Code	K	C	E	E
Performance Option Code	**30**	**31**	**01**	**00**
Fiber Type	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1383/1550 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	0.4/0.4/0.3	0.35/0.35/0.25
Minimum LED Bandwidth (MHz•km)	200/500	500/500	– / – / –	– / – / –
Minimum Effective Modal Bandwidth (MHz•km)	220/ –*	510/ –*	– / – / –	– / – / –
Serial Gigabit Ethernet Distance (m)	300/550	600/600	5000/ – / –	5000/ – / –
Serial 10 Gigabit Ethernet Distance (m)	33/ –	82/ –	10000/40000	10000/40000

** EMB when deployed with 850 nm, 1 Gb/s VCSELs as predicted by RML Bandwidth using FOTP-204.*

Ordering Information

Contact Corning Cable Systems Customer Service for other options.

□ □ □ □ **B 4 - 1 3** □ □ □ **C 2 0**

1 2 3 4 5 6 7 8 9 10 11 12 13 14

1 - 3 Select fiber count (012 to 072).

4 Select fiber code (see Transmission Performance Table).

5 / 12 Defines cable type.

B/C = SST-Optimizer™ Cable

6 Defines jacket.

4 = Dielectric

7 Defines fiber placement.

1 = 12 fiber/bundle (standard)

8 Defines length markings.

3 = Markings in meters

9 Select tensile strength.

2 = 500 N/110 lb (12-72 fiber) standard
3 = 100 N/22 lb (2-12 fiber)

10 - 11 Select performance option code. (see Transmission Performance Table).

13 - 14 Defines special requirements.

20 = No special requirements

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